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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,397	01/17/2002	Scott B. Marovich	10003530-1	9611
7590 09/08/2005			EXAMINER	
HEWLETT-PACKARD COMPANY			ISMAIL, SHAWKI SAIF	
Intellectual Property Administration				
P.O. Box 272400 Fort Collins, CO 80527-2400			ART UNIT	PAPER NUMBER
			2155	

DATE MAILED: 09/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/051,397	MAROVICH, SCOTT B.				
Office Action Summary	Examiner	Art Unit				
	Shawki S. Ismail	2155				
The MAILING DATE of this communication						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If NO period for reply is specified above, the maximum statutory p - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MOI statute, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>24 June 2005</u> .	·				
- / -	This action is FINAL. 2b)⊠ This action is non-final.					
·—						
closed in accordance with the practice un	der Ex parte Quayle, 1935 C.L	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-25</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
7) Claim(s) is/are objected to.	☐ Claim(s) 1-25 is/are rejected.					
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Application Papers						
9) The specification is objected to by the Exa		hy the Evaminer				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for fo a) ☐ All b) ☐ Some * c) ☐ None of:	reign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority docu	ments have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the						
application from the International B						
* See the attached detailed Office action for	a list of the certified copies no	t received.				
Attachment(s)	" (1)	(PTD 146)				
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date S. Patent and Trademark Office	· · · · · · · · · · · · · · · · · · ·	Informal Patent Application (PTO-152)				

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RESPONSE TO AMENDMENT

- This communication is in response to the amendment received on June 24,
 Claims 1-25 are pending.
- 2. Applicant's arguments, filed June 24, 2005, with respect to the rejection(s) of claim(s) 1-25 under 35 USC 102 have been fully considered and are persuasive.

 Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 1-25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Connery et al., (Connery) U.S Patent No. 6,570,884 and in view of Oberman et al., (Oberman) U.S. Patent Application No. 2002/0118640 and further in view of Dixon U.S. Patent No. 6,289,461.
- 5. As to claim 1, Connery teaches a network interface for processing incoming messages sent by a client device to a server, comprising:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein a First-In-First-Out

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(FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte- (or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the incoming messages, parse recognized message headers into parsed message headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

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It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

- 6. As to claim 2, Connery teaches the network interface as claimed in claim 1 further including: a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 col. 7, line 10).
- 7. As to claim 3, Connery teaches the network interface as claimed in claim 1 wherein: the regular-expression pattern matching circuit is further adapted to provide to the server the parsed message headers in a compact form (see Fig. 3, col. 5, lines 38-58).
- 8. As to claim 4, Connery teaches the network interface as claimed in claim 1 wherein: the regular-expression pattern matching circuit is further adapted to provide to the server incoming messages that cannot be recognized by the regular-expression pattern matching circuit (see Fig. 3, col. 5, lines 38-58).
- 9. As to claim 5, Connery teaches the network interface as claimed in claim 1 wherein: the regular-expression pattern matching circuit is implemented by a technique consisting of hardware, software, and a combination thereof (see Fig. 3).
- 10. As to claim 6, Connery teaches the network interface as claimed in claim 1 wherein: the HTTP message headers include HTTP cookies (col. 1, lines 13-24).

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11. As to claim 7, Connery teaches a network interface for processing incoming messages sent by a client device to a server, comprising:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein a First-In-First-Out (FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte- (or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the incoming messages, parse recognized message headers into parsed message headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

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In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

Wherein:

the HTTP message headers include HTTP cookies (col. 1, lines 13-24); and the regular-expression pattern matching circuit is implemented by a technique consisting of hardware, software, and a combination thereof (see Fig. 3). and

a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 – col. 7, line 10).

12. As to claim 8, Connery teaches a server for providing services to a client device, comprising:

a central processing unit (CPU) (see Fig. 2);

a bus connected to the CPU (see Fig. 2);

a memory connected to the bus, the memory having a server application program stored therein (see Fig. 2); and

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a network interface for processing incoming messages sent by the client device to the server, the network interface including:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein the First-In-First-Out (FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte-(or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the incoming messages, parse recognized message headers into parsed message headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

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In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

- 13. As to claim 9, Connery teaches the server as claimed in claim 8 further including: a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 col. 7, line 10).
- 14. As to claim 10, Connery teaches the server as claimed in claim 8 wherein: the regular-expression pattern matching circuit is further adapted to provide to the server the parsed message headers in a compact form (see Fig. 3, col. 5, lines 38-58).
- 15. As to claim 11, Connery teaches the server as claimed in claim 8 wherein:

the regular-expression pattern matching circuit is further adapted to provide to the server incoming messages that cannot be recognized by the regular-expression pattern matching circuit (see Fig. 3, col. 5, lines 38-58).

16. As to claim 12, Connery teaches the server as claimed in claim 8 wherein: the HTTP message headers include HTTP cookies (col. 1, lines 13-24).

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17. As to claim 13, Connery teaches a server for providing services to a client device, comprising:

a central processing unit (CPU) (see Fig. 2);

a bus connected to the CPU (see Fig. 2);

a memory connected to the bus, the memory having a server application program stored therein (see Fig. 2); and

a network interface for processing incoming messages sent by the client device to the server, the network interface including:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein a First-In-First-Out (FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte-(or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the

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incoming messages, parse recognized message headers into parsed message headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

the HTTP message headers include HTTP cookies, and the regular-expression pattern matching circuit is implemented by a technique consisting of hardware, software, and a combination thereof (see Fig. 3).), and

a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 – col. 7, line 10).

18. As to claim 14, Connery teaches a communications network, comprising: a client device (see Fig.1, 2);

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and a server connected to the client device for providing services to the client device (see Fig. 1, 2), the server including:

a central processing unit (CPU) (see Fig. 2),

a bus connected to the CPU (see Fig. 2),

a memory connected to the bus, the memory having a server application program stored therein, and a network interface for processing incoming messages sent by the client device to the server (see Fig. 2), the network interface including:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein a First-In-First-Out (FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte-(or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the incoming messages, parse recognized message headers into parsed message

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headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

19. As to claim 15, Connery teaches the communications network as claimed in claim 14 further including:

a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 – col. 7, line 10).

20. As to claim 16, Connery teaches the communications network as claimed in claim 14 wherein:

the regular-expression pattern matching circuit is further adapted to provide to the server the parsed message headers in a compact form (see Fig. 3, col. 5, lines 38-58).

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21. As to claim 17, Connery teaches the communications network as claimed in claim 14 wherein:

the regular-expression pattern matching circuit is further adapted to provide to the server incoming messages that cannot be recognized by the regular-expression pattern matching circuit (see Fig. 3, col. 5, lines 38-58).

22. As to claim 18, Connery teaches the communications network as claimed in claim 14 wherein:

the HTTP message headers include HTTP cookies (col. 1, lines 13-24).

23. As to claim 19, Connery teaches a communications network comprising:

a client device (see Fig. 1, 2); and

a server connected to the client device for providing services to the client device (see Fig. 1, 2), the server including:

a central processing unit (CPU), a bus connected to the CPU (see Fig. 2)

a memory connected to the bus, the memory having a server application program stored therein (see Fig. 2), and

a network interface for processing incoming messages sent by the client device to the server, the network interface including:

Connery teaches a FIFO buffer coupled to the port that receives incoming packets (see abstract). Connery does not explicitly teach wherein a First-In-First-Out (FIFO) buffer adapted to assemble the incoming messages from a serial to a parallel form.

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Oberman teaches a dynamic system and method for routing data packets through a network switch. Oberman further teaches wherein a FIFO buffer performs serial to parallel conversion on an incoming packet (paragraph 0051).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Oberman into the invention of Connery in order to allow data received from the network in bit or byte-serially to be processed by computers in byte-(or word-) parallel form.

Connery teaches a regular-expression pattern matching circuit connected to the FIFO buffer, the regular-expression pattern matching circuit adapted to, concurrent with the assembly of the incoming messages, recognize message headers embedded in the incoming messages, parse recognized message headers into parsed message headers, and provide the parsed message headers to the server (col. 4, lines 10-36, col. 6, lines 43-57).

Connery does not explicitly teach wherein the message headers are Hypertext transfer protocol HTTP message headers.

In an analogous system Dixon, teaches wherein a HTTP message requests are received from a client at a server interface. Server includes a buffer. The request include header information which identifies it as HTTP request and are forwarded to the sever for corresponding response (col. 4, line 66 – col. 5, line 14).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to incorporate the teaching of Dixon's HTTP message headers into

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the invention of Connery in order to use it in World Wide Web environment of the Internet and that management of HTTP message header is much easier.

wherein:

the HTTP message headers include HTTP cookies (col. 1, lines 13-24)., and the regular-expression pattern matching circuit is implemented by a technique consisting of hardware, software, and a combination thereof (see Fig. 3)., and

a logic circuit connected to the FIFO buffer, the logic circuit adapted to provide a response message to the client device based on a content of the recognized message headers (col. 1, lines 13-21, col. 6, line 58 – col. 7, line 10)..

24. As to claims 20-25, they contain similar limitations as seen above; therefore, they are rejected under the same rational

Response to Arguments

25. Applicant's arguments, filed June 24, 2005, with respect to the rejection(s) of claim(s) 1-25 under 35 USC 102 have been fully considered. The examiner has attempted to respond to the remarks in the body of the Office Action.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawki S Is mail whose telephone number is 571-272-3985. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sale Ajar can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Shaky Is mail Patent Examiner September 2, 2005

> SALEH NAJJAR PRIMARY EXAMINER